



ELSEVIER

Reliability Engineering and System Safety 66 (1999) 285–286

**RELIABILITY
ENGINEERING
&
SYSTEM
SAFETY**

www.elsevier.com/locate/ress

Contents of Volume 66

Number 1

- 1 Optimal degradation processes control by two-level policies
V. A. KOPNOV (Russia)
- 13 Preventive maintenance and the interval availability distribution of an unreliable production system
G. VAN DIJKHUIZEN & M. VAN DER HEIJDEN (The Netherlands)
- 29 State estimation for predictive maintenance using Kalman filter
S. K. YANG & T. S. LIU (Taiwan)
- 41 Calculating and addressing uncertainty for risk-based allowable outage times
C. L. SMITH, J. K. KNUDSEN & M. B. CALLEY (USA)
- 49 Economic analysis of software release problems with warranty cost and reliability requirement
M. KIMURA, T. TOYOTA & S. YAMADA (Japan)
- 57 Validating analytical judgements: the case of airbag's lifesaving effectiveness
K. M. THOMPSON, M. SEGUI-GOMEZ & J. D. GRAHAM (USA)
- 69 Alternative measures of risk of extreme events in decision trees
H. I. FROHWEIN, J. H. LAMBERT & Y. Y. HAIME (USA)
- 85 Bayes estimation of the general hazard rate model
A. SARHAN (Egypt)

Technical Notes

- 93 A note on reliability estimation of functionally diverse systems
B. LITTLEWOOD, P. POPOV & L. STRIGINI (UK)
- 97 On two-stage Bayesian modeling of initiating event frequencies and failure rates
E. HOFER (Germany)
- 101 Calendar

Number 2

Special Issue – Reliability Certification of Programmable Electronic Systems

- 103 Guest Editorial
D. M. KARYDAS (USA) & A. C. BROMBACHER (The Netherlands)
- 109 Maturity index on reliability: covering non-technical aspects of IEC61508 reliability certification
A. C. BROMBACHER (The Netherlands)
- 121 New quantitative safety standards: different techniques, different results?
J. L. ROUVROYE & A. C. BROMBACHER (The Netherlands)

- 127 Practical use of IEC 61508 and EN 954 for the safety evaluation of an automatic mining truck
J.-J. PAQUES (Canada), J.-L. DURKA (France) & R. BOURBONNIÈRE (Canada)
- 135 Estimation of average hazardous-event-frequency for allocation of safety-integrity levels
Y. MISUMI & Y. SATO (Japan)
- 145 Using a failure modes, effects and diagnostic analysis (FMEDA) to measure diagnostic coverage in programmable electronic systems
W. M. GOBLE (USA) & A. C. BROMBACHER (The Netherlands)
- 149 RIFIT: analyzing hardware and software in safeguarding systems
A. C. BROMBACHER & I. W. R. J. VAN BEURDEN (The Netherlands)
- 157 An algorithm for reliability analysis of phased-mission systems
Y. MA & K. S. TRIVEDI (USA)
- 171 Application of micro Markov models for quantitative safety assessment to determine safety integrity levels as defined by the IEC 61508 standard for functional safety
B. KNEGTERING & A. C. BROMBACHER (The Netherlands)
- 177 Bayesian decision analysis and reliability certification
I. A. PAPAZOGLU (Greece)
- 199 Calendar

Number 3

- 203 Treatment of uncertainties in space nuclear risk assessment with examples from Cassini mission applications
M. V. FRANK (USA)
- 223 A study of an n -unit system operating in a random environment
P. CHANDRASEKHAR & R. NATARAJAN (India)
- 227 Weibull and inverse Weibull mixture models allowing negative weights
R. JIANG, M. J. ZUO (Canada) & H.-X. LI (Hong Kong)
- 235 Wearing-out of components in a variable environment
M. S. FINKELSTEIN (South Africa)
- 243 Using Markov Chain Monte Carlo methods to solve full Bayesian modeling of PWR vessel flaw distributions
G. CELEUX, M. PERSOZ, J. N. WANDJI & F. PERROT (France)
- 253 Robust parameter design for integrated circuit fabrication procedure with respect to categorical characteristic
S. Y. SOHN (South Korea)

Short Communications

- 261 International survey on PSA figures of merit
D. VASSEUR & M. LLORY (France)
- 275 Identification of missing scenarios in ESDs using probabilistic dynamics
S. SWAMINATHAN & C. SMIDTS (USA)
- 281 Calendar

